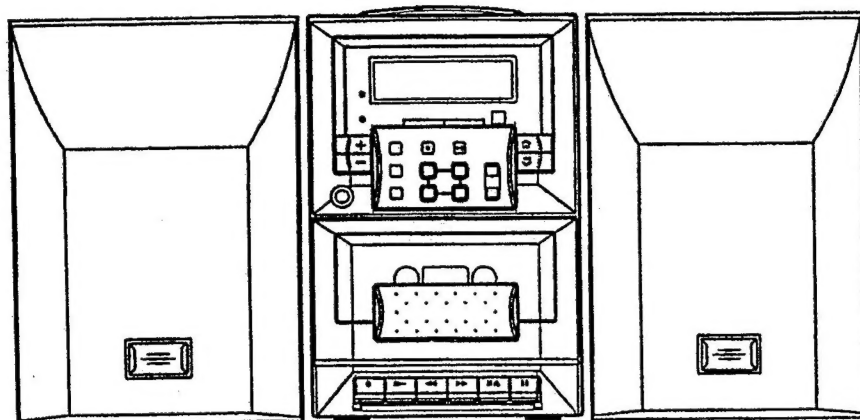


ETNr. 2283976



Technische Daten

Netzanschluß:

230 V ~ (+6 /-10%) 50 Hz

Leistungsaufnahme:

55 Watt max.

Abmessungen in cm.:

ca. Breite 14,5; Höhe 22,0; Tiefe 20,0

Verstärkertell

Maximale Ausgangsleistung:

60 Watt (2x 30 Watt)

Lautsprechermindestimpedanz:

4 Ohm (Anschlußwert)

Übertragungsbereich:

von 40 Hz - 16 kHz (1,5 dB)

FM-Bereich (UKW)

87,5 - 108 MHz

Empfindlichkeit:

6 µV

Hub:

22,5 kHz und S/R - 26 dB:

Pilotunterdrückung:

19 kHz = 40 dB

38 kHz = 50 dB

MW-Bereich

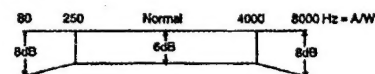
522 - 1620 kHz

Empfindlichkeit:

1500 µV; 26 dB S/N

Tonbandtell

Übertragungsbereich Aufnahme und Wiedergabe



Geschwindigkeitsabweichung:

1,5 %

Tonhöschwankung:

0,3 %

Tonband:

Normalcassetten

80 Hz - 10.000 Hz

Geräuschspannungsabstand:

40 dB

Tonhöschwankung:

0,3 %

CD-Spieler

Optischer Tonabnehmer:

3-Strahlen-Laser

D/A-Umwandler

UTS-Nr.: 999 QUELLE
Best.Nr.: 1009927/01
Ger.Bez.: UNIVERSUM MICRO-ANLAGE

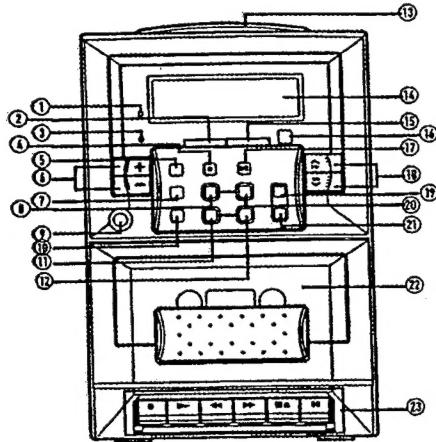
GKz: G GERAET
WGT: 650 MICRO-/MINI-ANLAGEN
KD-Sektor: R RUNDFUNK
BaumNr.: 00 KEIN DIAGNOSEBAUM VORHANDEN
Klassierung: STK STEREOKOMBINATION
IFW-FehlerGru.: 205 RDF., VERST., TB., PHONO, CD, CB
Type/Privileg/Universum.Nr VTC-CD1098
Beschreibung RDS
VK-Preis: 269.00

Serviceart: 01 UTS
Garantie fuer Kunden 12 Monate
Sondervereinbarungen: 0 SIEHE SERVICEART

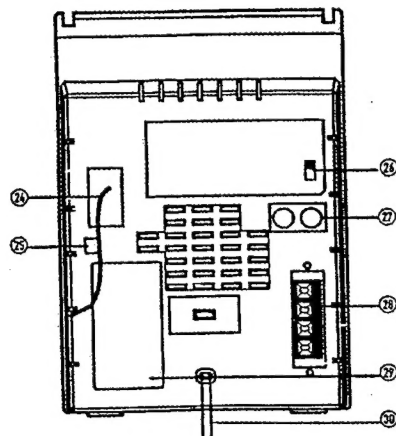
Garantiereparatur 9999999 UTS
Sondervereinbarungen: 0 SIEHE SERVICEART

Bedienungselemente

Frontansicht

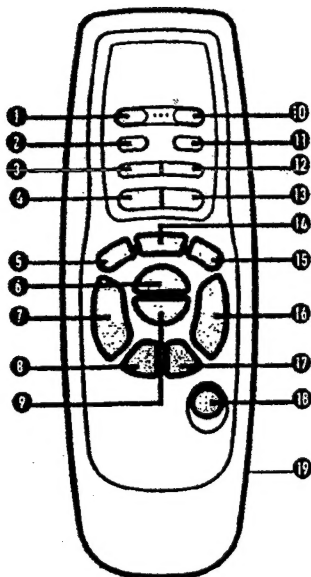


Rückseite



Bedienungselemente und Funktionen

- | | |
|--|--|
| ① ST-BY = Bereitschaftsanzeige | ⑩ REPEAT = Wahl der Wiederholfunktion; |
| ② MEMORY = Speichertaste | PRESET = Abrufen der gespeicherten |
| CLOCK = Stellen der Uhr-/Alarmzeit | Sender aufwärts |
| ③ X-BASS = Funktionsanzeige für Extra- | ⑪ TUNER = Rundfunkbetrieb |
| Baßsystem | ⑫ RANDOM = Wiedergabe in zufälliger |
| ④ STOP ■ = Beendet die CD-Wiedergabe | Reihenfolge |
| ⑤ POWER = Einschalten aus Bereitschaft | ⑬ Cassettenfachdeckel Deck A |
| ⑥ VOLUME = Lautstärkereglertasten | ⑭ Laufwerklasten für Cassettendeckel |
| - = verringert die Lautstärke | PAUSE = Pause/Unterbrechen der |
| + = erhöht die Lautstärke | Wiedergabe |
| ⑦ INTRO = Anspielen aller CD-Titel | STOP/EJECT = Beenden der Wiedergabe, |
| ⑧ CD = Umschalten auf CD-Betrieb | Öffnen des Cassettenfachdeckels |
| ⑨ PHONES = Kopfhörerbuchse; | F.FWD = Schneller Vorlauf |
| 3,5 mm Ø Klinkestecker, schaltet die | REW = Schneller Rücklauf |
| Lautsprecher ab | PLAY = Cassettenwiedergabe |
| ⑩ X-BASS = Basssystem ein-/ausschalten | REC = Aufnahmetaste |
| ⑪ AUX = Wiedergabe vom Zusatzgerät | |
| ⑫ TAPE = Cassettenbetrieb | |
| ⑬ CD-Fachdeckel | |
| ⑭ Display | |
| ⑮ BAND = Bereichswahl; | |
| FM = UKW, MW = Mittelwelle | |
| ⑯ IR = Fernbedienungsempfänger | |
| ⑰ PLAY/PAUSE ►I = CD-Wiedergabe und | |
| Unterbrechung | |
| ⑱ ►► = Suchlauf vorwärts; | |
| Titelwahl vorwärts; | |
| ▲ = Frequenzeinstellung; | |
| Stellen der Stunden/Minuten vorwärts | |
| ◄◄ = Suchlauf rückwärts; | |
| Titelwahl rückwärts; | |
| ▼ = Frequenzeinstellung; | |
| Stellen der Stunden/Minuten rückwärts | |
| | Rückseite |
| | ⑲ FM (UKW) = Antennenbuchse 75 Ω |
| | ⑳ AM (MW) = Antennenanschlüsse |
| | ㉑ BEAT CUT 1/2 = Vormagnetisierungs- |
| | umschalter |
| | MONO-/STEREO-Umschalter |
| | ㉒ AUX = Eingangsbuschsen für Zusatzge- |
| | räte z. B. Plattenspieler |
| | R = rechter Kanal (rot) |
| | L = linker Kanal (weiß) |
| | ㉓ Lautsprecheranschlufklemmen |
| | R = rechter Kanal |
| | L = linker Kanal |
| | ㉔ Batteriefach für 2 Mignonzellen (für den |
| | Sender-/Zeitspeicher) |
| | ㉕ AC = Netzanschlußbuchse 230 V/50 Hz |

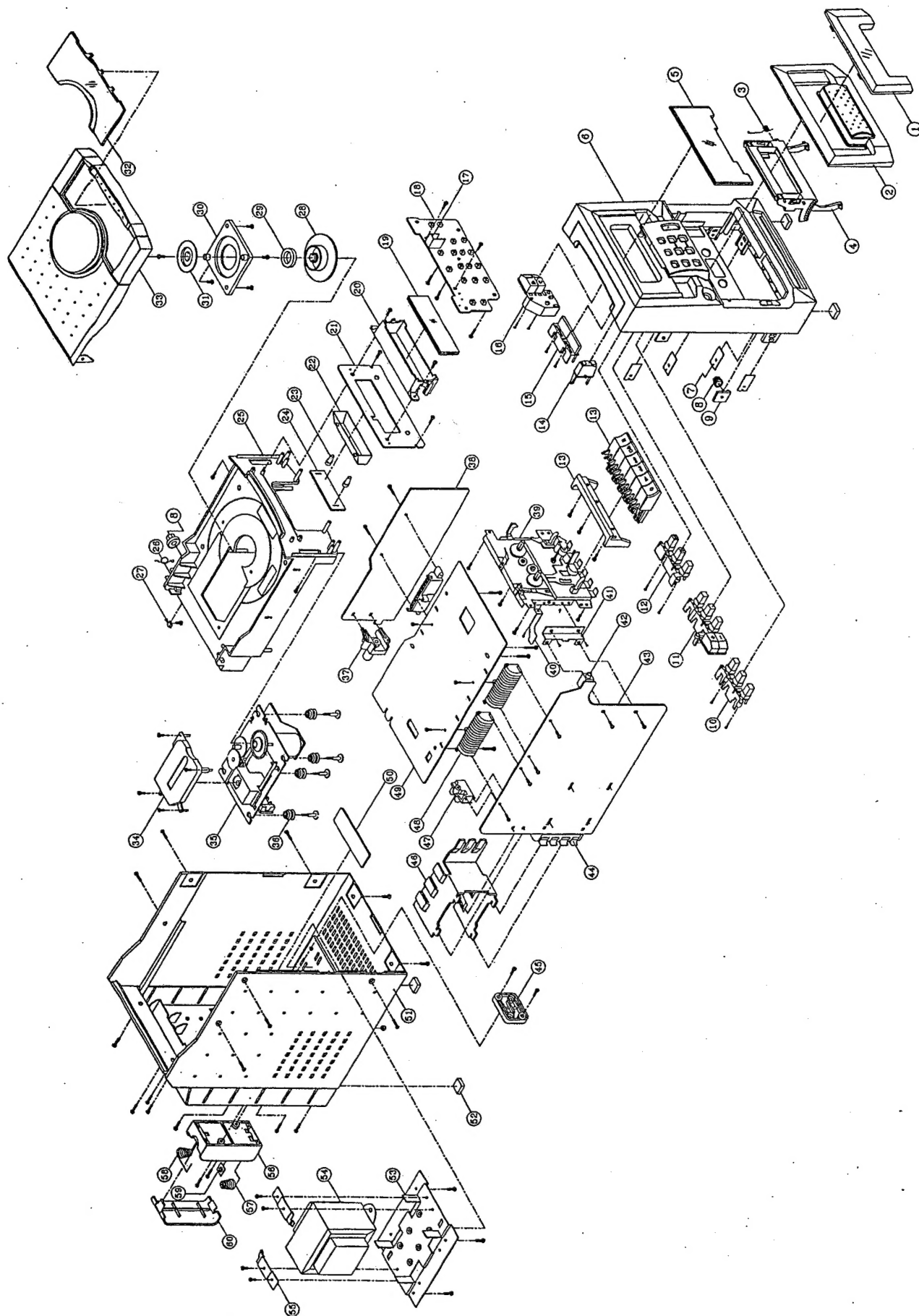


- | | |
|--|--|
| ① X-BASS = Basssystem ein-/ausschalten | ⑧ STOP ■ = Beendet die CD-Wiedergabe |
| ② SLEEP = Einschalten und Stellen der | ⑨ BAND = Bereichswahl; |
| Sleep-Funktion | FM = UKW, MW = Mittelwelle |
| ③ MODE REMAIN = Umschalten der | ⑩ AUX = Wiedergabe von Zusatzgerät |
| Display-Anzeige | ⑪ TIMER = Timerfunktion Ein-/Ausschalten |
| ④ MEMORY = Speichertaste; | ⑫ INTRO = Anspielen aller CD-Titel |
| CLOCK = Stellen der Uhr-/Alarmzeit | ⑬ RANDOM = Wiedergabe in zufälliger |
| ⑤ CD = Umschalten auf CD-Betrieb | Reihenfolge |
| ⑥ REPEAT = Wahl der Wiederholfunktion; | ⑭ TUNER = Rundfunkbetrieb |
| PRESET = Abrufen der gespeicherten | ⑮ TAPE = Cassettenbetrieb |
| Sender aufwärts | ⑯ VOLUME = Lautstärkereglertasten |
| ⑦ ►► = Suchlauf vorwärts; | - = verringert die Lautstärke |
| Titelwahl vorwärts; | + = erhöht die Lautstärke |
| ▲ = Frequenzeinstellung; | ⑰ PLAY/PAUSE ►I = CD-Wiedergabe und |
| Stellen der Stunden/Minuten vorwärts | Unterbrechung |
| ◄◄ = Suchlauf rückwärts; | ⑱ POWER/STANDBY = Einschalten aus |
| Titelwahl rückwärts; | Bereitschaft |
| ▼ = Frequenzeinstellung; | ⑲ Batteriefach für 2 Mignon-Batterien |
| Stellen der Stunden/Minuten rückwärts | |

Einsetzen der Batterien

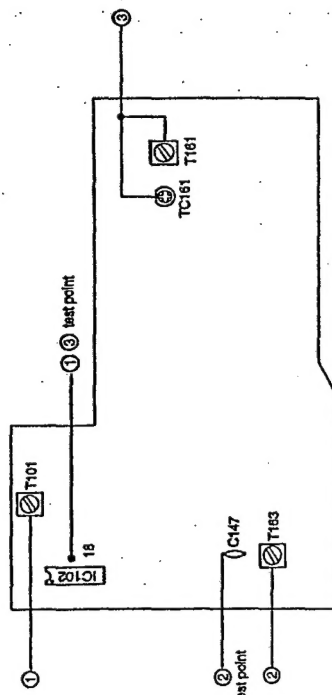
Öffnen Sie den rückseitigen Batteriefachdeckel ⑲ und setzen Sie zwei Batterien Microzellen 1,5 V (IEC LR 03) mit richtiger Polarität (Batterieboden zu den Spiralfedern) ein.

EXPLODED DRAWING - MAIN UNIT



ALIGNMENT SET-UP PROCEDURES

TUNER SECTION



CD6201R-01-03

1. AM IF Adjustment

Test point: IC102 (TA2057N) 18PIN

Adjustment location: T101

T101 ----- 450 kHz waveform max.

2. MW Frequency Range Adjustment

Test point: C147

Adjustment location: T163

Set the tuner frequency to be 522 kHz

Adjust T163 so that the test point voltage is

1.7±0.05V.

3. MW Tracking Adjustment

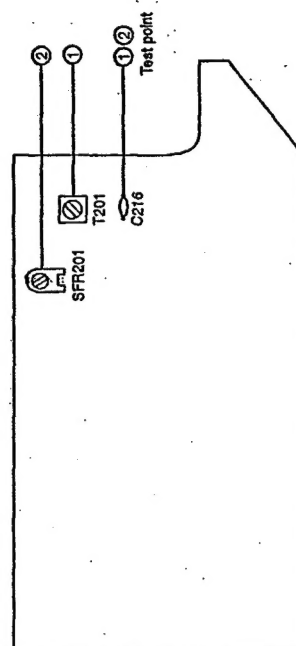
Test point: IC102 (TA2057N) 18PIN

Adjustment location: T161, TC161

T161 ----- 630 ±40 kHz waveform max.

TC161 ----- 1431 ±40 kHz waveform max.

CASSETTE SECTION



CD6201R-01-01

1. Bias Frequency Adjustment

Test point: C216

Adjustment location: T201

T201 ----- 60 ±2 kHz

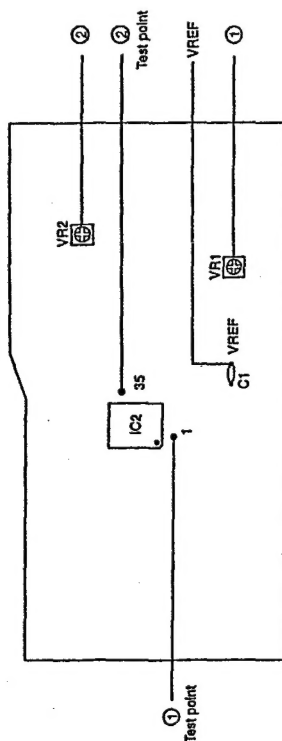
2. Bias level Adjustment

Test point: C216

Adjustment location: SFR201

SFR201 ----- 10 ±0.5V

CD SECTION



CD6201R-01-02

1. RF Adjustment

Test point: IC2 (TA2065F) 1PIN and C1

1) Connect an oscilloscope to the test points.

2) Connect the oscilloscope output to Jitter Meter.

3) Turn on power switch.

4) Load test disc (TCD-782) and Play NO. 2.

5) Adjust VR1 so that RF waveform is maximum and value of jitter is minimum (≤30ns).

6) Turn off power switch.

2. EF Balance Adjustment

Test point: IC2 (TA2065F) 35PIN and C1

1) Connect an oscilloscope to the test points.

2) Turn on power switch.

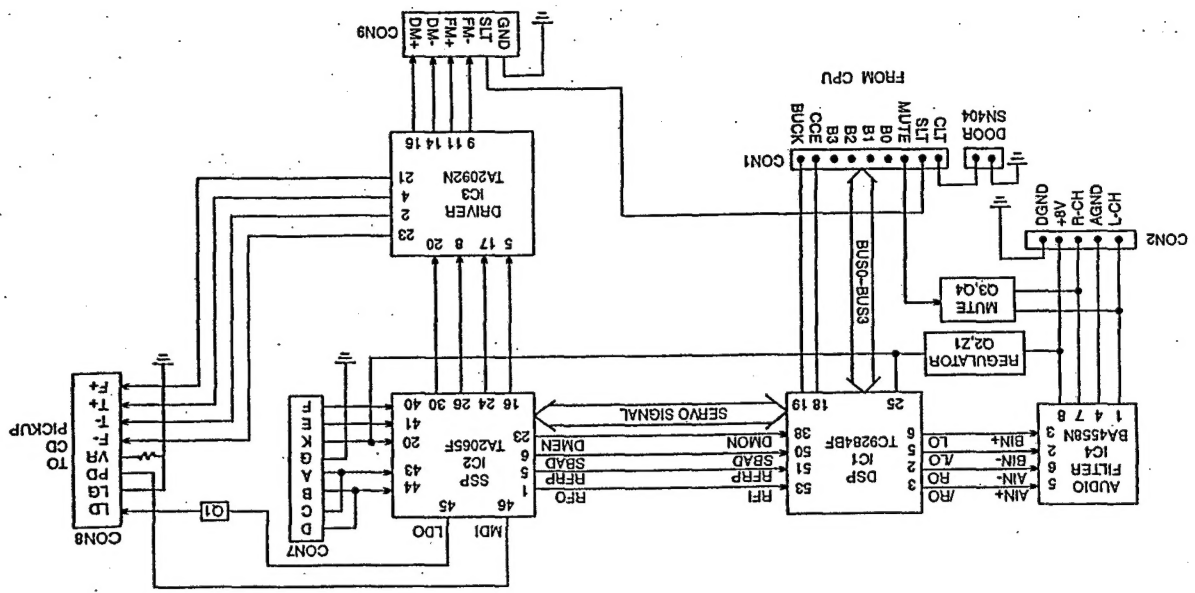
3) Load test disc (TCD-782) and play.

4) Press SKIP button so that EF waveform appear.

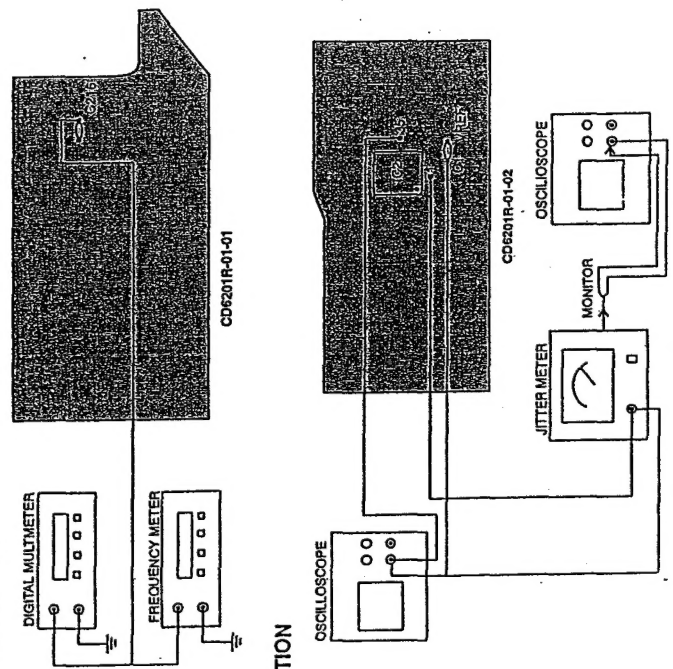
5) Adjust VR2 so that EF waveform is symmetrical.

6) Turn off power switch.

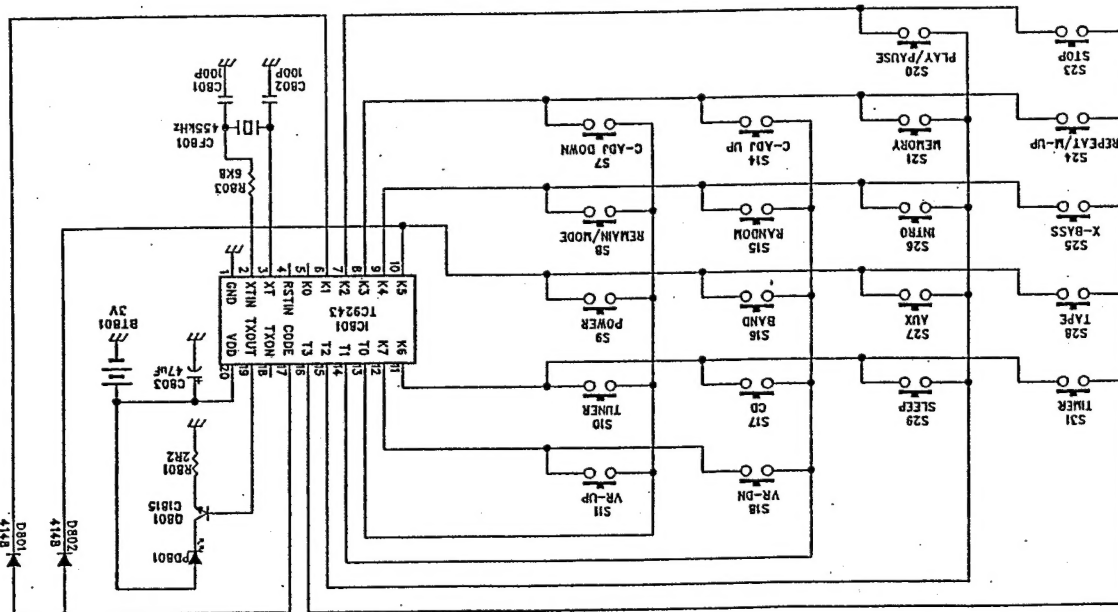
CD SECTION



CD SECTION



BLOCK DIAGRAMS TUNER / CASSETTE / CONTROL & POWER AMP. SECTION



[illegible][illegible]

The block diagram illustrates the internal architecture of the 80C16 microcontroller. Key components include:

- System Controller:** Manages the overall system operation, receiving RESET and TEST signals.
- Standby Controller:** Controls the standby mode.
- Timing Generator:** Provides clock signals (High Imp., Low Imp.) to the system.
- Time Base:** Includes an internal timer and a watchdog timer.
- Interrupt Controller:** Manages various interrupt sources (P0, P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13, P14, P15, P16, P17, P18, P19, P20, P21, P22, P23, P24, P25, P26, P27, P28, P29, P30, P31, P32, P33, P34, P35, P36, P37, P38, P39, P40, P41, P42, P43, P44, P45, P46, P47, P48, P49, P50, P51, P52, P53, P54, P55, P56, P57, P58, P59, P60, P61, P62, P63, P64, P65, P66, P67, P68, P69, P70, P71, P72, P73, P74, P75, P76, P77, P78, P79, P80, P81, P82, P83, P84, P85, P86, P87, P88, P89, P90, P91, P92, P93, P94, P95, P96, P97, P98, P99, P100, P101, P102, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P117, P118, P119, P120, P121, P122, P123, P124, P125, P126, P127, P128, P129, P130, P131, P132, P133, P134, P135, P136, P137, P138, P139, P140, P141, P142, P143, P144, P145, P146, P147, P148, P149, P150, P151, P152, P153, P154, P155, P156, P157, P158, P159, P160, P161, P162, P163, P164, P165, P166, P167, P168, P169, P170, P171, P172, P173, P174, P175, P176, P177, P178, P179, P180, P181, P182, P183, P184, P185, P186, P187, P188, P189, P190, P191, P192, P193, P194, P195, P196, P197, P198, P199, P200, P201, P202, P203, P204, P205, P206, P207, P208, P209, P210, P211, P212, P213, P214, P215, P216, P217, P218, P219, P220, P221, P222, P223, P224, P225, P226, P227, P228, P229, P230, P231, P232, P233, P234, P235, P236, P237, P238, P239, P240, P241, P242, P243, P244, P245, P246, P247, P248, P249, P250, P251, P252, P253, P254, P255, P256, P257, P258, P259, P260, P261, P262, P263, P264, P265, P266, P267, P268, P269, P270, P271, P272, P273, P274, P275, P276, P277, P278, P279, P280, P281, P282, P283, P284, P285, P286, P287, P288, P289, P290, P291, P292, P293, P294, P295, P296, P297, P298, P299, P300, P301, P302, P303, P304, P305, P306, P307, P308, P309, P310, P311, P312, P313, P314, P315, P316, P317, P318, P319, P320, P321, P322, P323, P324, P325, P326, P327, P328, P329, P330, P331, P332, P333, P334, P335, P336, P337, P338, P339, P340, P341, P342, P343, P344, P345, P346, P347, P348, P349, P350, P351, P352, P353, P354, P355, P356, P357, P358, P359, P360, P361, P362, P363, P364, P365, P366, P367, P368, P369, P370, P371, P372, P373, P374, P375, P376, P377, P378, P379, P380, P381, P382, P383, P384, P385, P386, P387, P388, P389, P390, P391, P392, P393, P394, P395, P396, P397, P398, P399, P400, P401, P402, P403, P404, P405, P406, P407, P408, P409, P410, P411, P412, P413, P414, P415, P416, P417, P418, P419, P420, P421, P422, P423, P424, P425, P426, P427, P428, P429, P430, P431, P432, P433, P434, P435, P436, P437, P438, P439, P440, P441, P442, P443, P444, P445, P446, P447, P448, P449, P450, P451, P452, P453, P454, P455, P456, P457, P458, P459, P460, P461, P462, P463, P464, P465, P466, P467, P468, P469, P470, P471, P472, P473, P474, P475, P476, P477, P478, P479, P480, P481, P482, P483, P484, P485, P486, P487, P488, P489, P490, P491, P492, P493, P494, P495, P496, P497, P498, P499, P500, P501, P502, P503, P504, P505, P506, P507, P508, P509, P510, P511, P512, P513, P514, P515, P516, P517, P518, P519, P520, P521, P522, P523, P524, P525, P526, P527, P528, P529, P530, P531, P532, P533, P534, P535, P536, P537, P538, P539, P540, P541, P542, P543, P544, P545, P546, P547, P548, P549, P550, P551, P552, P553, P554, P555, P556, P557, P558, P559, P560, P561, P562, P563, P564, P565, P566, P567, P568, P569, P570, P571, P572, P573, P574, P575, P576, P577, P578, P579, P580, P581, P582, P583, P584, P585, P586, P587, P588, P589, P590, P591, P592, P593, P594, P595, P596, P597, P598, P599, P600, P601, P602, P603, P604, P605, P606, P607, P608, P609, P610, P611, P612, P613, P614, P615, P616, P617, P618, P619, P620, P621, P622, P623, P624, P625, P626, P627, P628, P629, P630, P631, P632, P633, P634, P635, P636, P637, P638, P639, P640, P641, P642, P643, P644, P645, P646, P647, P648, P649, P650, P651, P652, P653, P654, P655, P656, P657, P658, P659, P660, P661, P662, P663, P664, P665, P666, P667, P668, P669, P670, P671, P672, P673, P674, P675, P676, P677, P678, P679, P680, P681, P682, P683, P684, P685, P686, P687, P688, P689, P690, P691, P692, P693, P694, P695, P696, P697, P698, P699, P700, P701, P702, P703, P704, P705, P706, P707, P708, P709, P710, P711, P712, P713, P714, P715, P716, P717, P718, P719, P720, P721, P722, P723, P724, P725, P726, P727, P728, P729, P730, P731, P732, P733, P734, P735, P736, P737, P738, P739, P740, P741, P742, P743, P744, P745, P746, P747, P748, P749, P750, P751, P752, P753, P754, P755, P756, P757, P758, P759, P760, P761, P762, P763, P764, P765, P766, P767, P768, P769, P770, P771, P772, P773, P774, P775, P776, P777, P778, P779, P780, P781, P782, P783, P784, P785, P786, P787, P788, P789, P790, P791, P792, P793, P794, P795, P796, P797, P798, P799, P800, P801, P802, P803, P804, P805, P806, P807, P808, P80

VOLTAGE CHART THE MEASURED VALUE IS DC VOLTAGE

UNIT:V

TUNER SECTION

TEST CONDITION: SET AM/FM TUNER ON ONE FREQUENCY

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
AM	2.00	0.32	0	2.00	4.98	5.28	0	0	0	2.52	5.32	1.57
FM	1.96	0.52	0	1.96	4.93	4.93	0.96	0	0	0	0	1.55
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
AM	1.56	4.75	3.84	0.55	1.39	1.45	1.44	1.82	2.00	2.00	5.27	2.00
FM	1.54	4.22	3.70	3.57	1.37	0	0.87	1.11	1.96	1.96	4.93	1.96

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
AM	2.79	2.79	4.85	4.85	0	0	0	0	4.32	2.41
FM	2.76	2.76	4.83	4.82	0	0	0.73	0	2.06	1.91
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
AM	2.45	5.56	2.75	0	0	2.71	2.48	2.49	2.11	1.16
FM	2.01	5.51	0	2.70	0	2.70	2.07	1.93	1.73	1.15

PIN'S NUMBER	1	2	3	4	5	6	7	8
FM	2.60	0	2.56	2.53	4.97	0	0	2.55
AM	3.51	4.21	2.56	0	4.78	0	0	2.56
PIN'S NUMBER	9	10	11	12	13	14	15	16
FM	0	0	0	4.79	1.73	2.33	0	2.30
AM	0	0	0	4.78	1.77	2.33	0	2.30

TRANSISTOR	Q102(2SA952)			Q103(2SC1815)			Q106(2SA952)		
	E	C	B	E	C	B	E	C	B
FM	9.48	9.45	8.72	0	0.05	0.72	3.50	0	9.44
AM	9.54	0	9.45	0	9.42	0.52	0.55	0	0
TRANSISTOR	Q109(2SC1815)			Q110(2SC1815)			Q105(2SC1417)		
	E	C	B	E	C	B	E	C	B
FM	0.64	2.04	1.16	0	2.04	0.64	2.09	8.24	2.79

TRANSISTOR	Q104(2SC1417)			Q101(2SK161)		
	E	C	B	G	D	S
FM	2.09	8.59	2.79	0	7.66	0

TRANSISTOR	Q161(2SK161)		
	G	S	D
AM	0	0.54	5.30

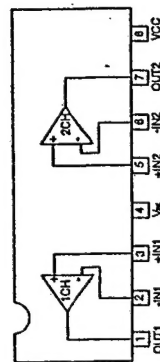
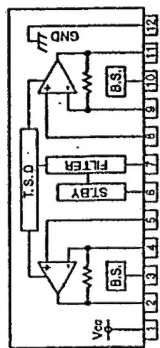
TRANSISTOR	Q107(2SC1815)		
	E	C	B
MONO	0.68	0	0
ST	0	3.55	0

CASSETTE & POWER SECTION

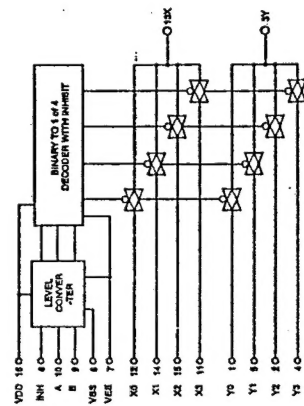
PIN'S NUMBER	1	2	3	4	5	6	7	8	9
PLAY	1.78	0	1.79	0	0	9.24	1.80	0	1.79
REC	1.78	0	1.80	0	0	9.24	1.80	0	1.79

IC LEAD IDENTIFICATION AND INTERNAL DIAGRAMS

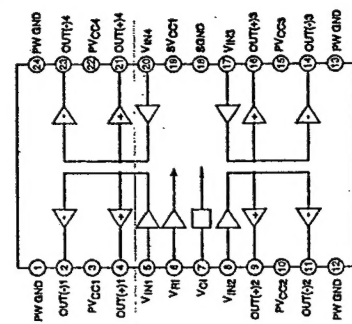
IC303 BA5415A



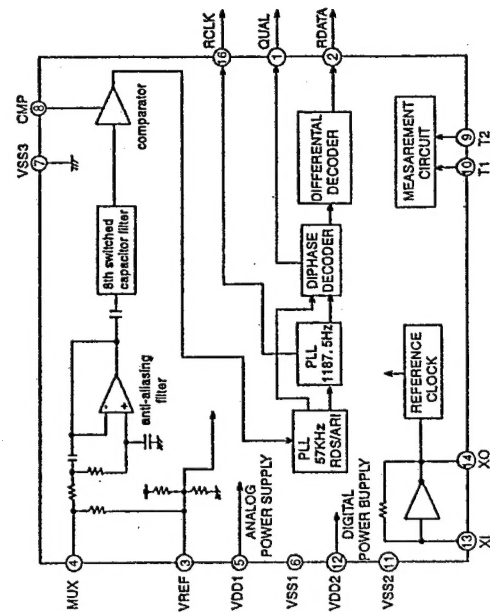
IC301 BU4052BC



IC3 TA2092N



IC403 BU1923



VOLTAGE CHART - CONTINUED

IC2 (TA2065F)												
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
TAPE	2.17	2.05	2.07	4.12	2.47	2.54	2.54	2.05	2.05	2.04	2.07	2.01
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
TUNER	2.05	2.05	2.06	2.05	2.03	2.45	0	4.87	4.85	2.10	2.07	2.20
PIN'S NUMBER	25	26	27	28	29	30	31	32	33	34	35	36
CD	2.30	2.05	2.07	2.07	2.02	2.07	2.06	2.07	2.07	2.07	2.07	2.07
PIN'S NUMBER	37	38	39	40	41	42	43	44	45	46	47	48
AUX	2.07	2.07	1.78	2.06	2.03	1.77	2.04	2.05	3.68	0.20	2.10	2.31

IC3 (TA2092N)												
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
TAPE	0	4.29	9.38	4.55	2.09	2.09	4.42	2.08	4.41	9.37	4.45	0
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
TUNER	0	4.04	9.38	4.82	2.18	0	9.38	2.22	4.47	9.38	4.44	0

IC4 (BA4558N)							
PIN'S NUMBER	1	2	3	4	5	6	7
TAPE	5.01	4.54	4.52	0	4.51	4.50	4.96
CD	7.42	7.42	7.42	7.42	7.42	7.42	7.42

CONTROL SECTION TEST CONDITION: CD PLAY & TUNER

IC402 (TMP87P24AP)												
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
CD	0	1.70	1.70	4.72	1	1	0	0.99	2.97	5.29	0	0
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20	21	22
TUNER	0	4.87	0.03	0.03	4.87	0.02	0.05	4.89	4.87	0.02	0	0
PIN'S NUMBER	21	22	23	24	25	26	27	28	29	30	31	32
CD	0.02	5.34	1.71	4.79	1.72	0	0	0.06	1	1	1	1
PIN'S NUMBER	31	32	33	34	35	36	37	38	39	40	41	42
TUNER	1	1	1	0.23	0.17	0.16	0.11	0.07	4.84	4.99	0	0
PIN'S NUMBER	41	42	43	44	45	46	47	48	49	50	51	52
CD	5.00	1	1	1	5.32	0.02	4.91	4.99	0.02	0.02	0	0
PIN'S NUMBER	51	52	53	54	55	56	57	58	59	60	61	62
CD	4.86	0.07	4.60	1	1	1	1	1	1.45	1.44	1	1
PIN'S NUMBER	61	62	63	64	65	66	67	68	69	70	71	72
TUNER	1.46	1.46	1.45	1.46	1.46	1.46	1.46	1.46	1.46	1.45	1.45	1.45
PIN'S NUMBER	71	72	73	74	75	76	77	78	79	80	81	82
CD	1.45	1.45	1.45	1.46	1.47	1.46	1.46	1.46	1.46	1.46	1.46	1.46
PIN'S NUMBER	81	82	83	84	85	86	87	88	89	90	91	92
TUNER	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
PIN'S NUMBER	91	92	93	94	95	96	97	98	99	100	101	102
CD	1	1.46	1.46	1.46	1.46	2.83	1.93	1.70	0.74	4.86	0	0

REMOTE SECTION TEST CONDITION: QUIESCENT VOLTAGE

IC801 (TC9243F)												
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
TAPE	0	3.00	2.96	3.00	0	0	0	0	0	0	0	0
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20	21	22
TUNER	0	0	3.00	3.00	3.00	3.00	0	3.00	0	3.00	0	3.00

VOLTAGE CHART - CONTINUED

IC301 (BU4052BC)												
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
TAPE	3.05	0.05	0.85	0.42	0.71	0	0	0	3.67	6.32	0	0
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
TUNER	2.31	0.19	0.21	0.20	0.27	0	0	0	5.18	5.20	0	0
PIN'S NUMBER	25	26	27	28	29	30	31	32	33	34	35	36
CD	1.64	0.17	0.16	0.19	0	0	0	0	4.87	1.87	0	0
PIN'S NUMBER	37	38	39	40	41	42	43	44	45	46	47	48
AUX	0.16	0.16	0.16	0.16	0.02	0	0	0	1.94	2.03	0	0
PIN'S NUMBER	49	50	51	52	53	54	55	56	57	58	59	60
TUNER	0.28	3.58	0.25	0.23	0.28	9.51	0	0	0	0	0	0
PIN'S NUMBER	61	62	63	64	65	66	67	68	69	70	71	72
CD	0.23	2.20	0.18	0.14	0.22	9.40	0	0	0	0	0	0
PIN'S NUMBER	73	74	75	76	77	78	79	80	81	82	83	84
AUX	0.20	1.71	0.19	0	0.18	9.51	0	0	0	0	0	0
PIN'S NUMBER	85	86	87	88	89	90	91	92	93	94	95	96
TUNER	0.19	0.18	0.14	0	0.17	9.66	0	0	0	0	0	0

IC302 (PT2253A)												
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
TAPE	0	3.89	3.87	3.88	3.87	3.87	7.83	7.82	0	0	0	0
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
TUNER	9	10	11	12	13	14	15	16	0	0	0	0
PIN'S NUMBER	25	26	27	28	29	30	31	32	33	34	35	36
CD	7.79	7.82	3.88	3.88	3.88	3.86	3.88	7.83	0	0	0	0

IC303 (BA5415A)												
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
TAPE	18.09	8.92	15.34	0.59	0	12.92	16.21	0	0.59	15.46	0.06	0
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
TUNER	0	0	0	0	0	0	0	0	0	0	0	0

TRANSISTOR Q201(2SC1815)												
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
TAPE	0.02	15.34	0.02	0.11	6.10	0.76	0	0	0	0	0	0
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
TUNER	0	0	0	0	0	0	0	0	0	0	0	0

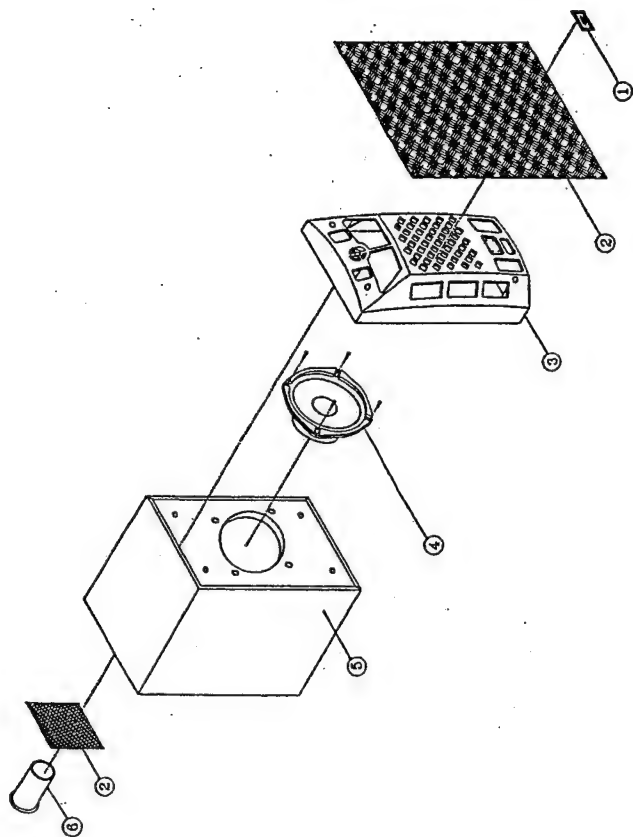
TRANSISTOR Q301(2SB562)												
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
TAPE	9.55	9.44	9.65	0	0.06	0.71	0	0	1.01	15.44	9.67	14.72
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
TUNER	0	0	0	0	0	0	0	0	0	0	0	0

TRANSISTOR Q309(2SB562)												
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
TAPE	15.36	15.32	14.73	0	0.09	0.72	0	0	0	0	0	0
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
TUNER	0	0	0	0	0	0	0	0	0	0	0	0

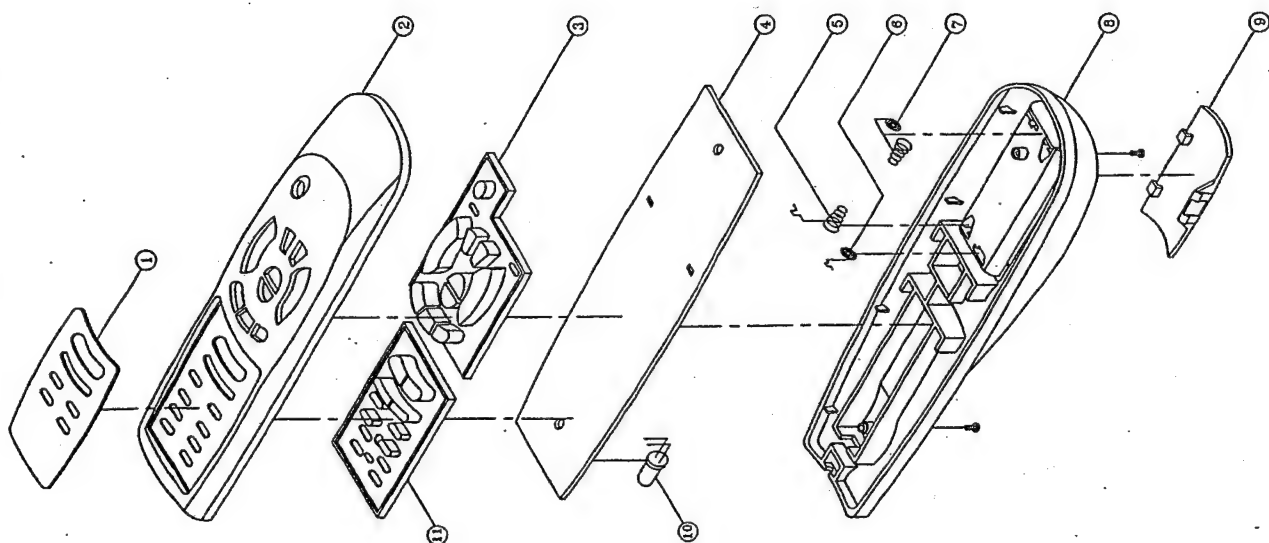
CD SECTION TEST CONDITION: CD PLAY

IC1 (TC9284BF)												
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
TAPE	0	2.59	2.81	4.87	2.82	2.57	0	4.84	4.84	4.85	0	0
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20	21	22
TUNER	4.53	4.87	0	4.75	4.76	7.74	4.72	4.80	2.27	0	0	0
PIN'S NUMBER	21	22	23	24	25	26	27	28	29	30	31	32
CD	4.86	0	0	0	4.88	0	2.07	2.07	2.07	2.07	0	0
PIN'S NUMBER	31	32	33	34	35	36	37	38	39	40	41	42
TUNER	2.05	2.07	1.70	2.07	4.84	1.81	4.84	2.07	2.07	2.27	0	0
PIN'S NUMBER	41	42	43	44	45	46	47	48	49	50	51	52
CD	4.12	4.85	2.45	2.45	2.07	2.06	2.07	2.07	2.07	2.51	0	0
PIN'S NUMBER	51	52	53	54	55	56	57	58	59	60	61	62
TUNER	2.85	2.07	2.10	0	2.38	4.87	2.36	4.88	4.88	2.07	0	0
PIN'S NUMBER	61	62	63	64	65	66	67	68	69	70	71	72
CD	2.03	2.07	1.98	1.40	0	4.84	0	0	1.62	2.42	0	0
PIN'S NUMBER	71	72	73	74	75	76	77	78	79	80	81	82
TUNER	2.42	2.41	2.47	0	2.10	4.81	4.88	1.80	1.81	0	0	0

EXPLODED DRAWING - MAIN SPEAKER

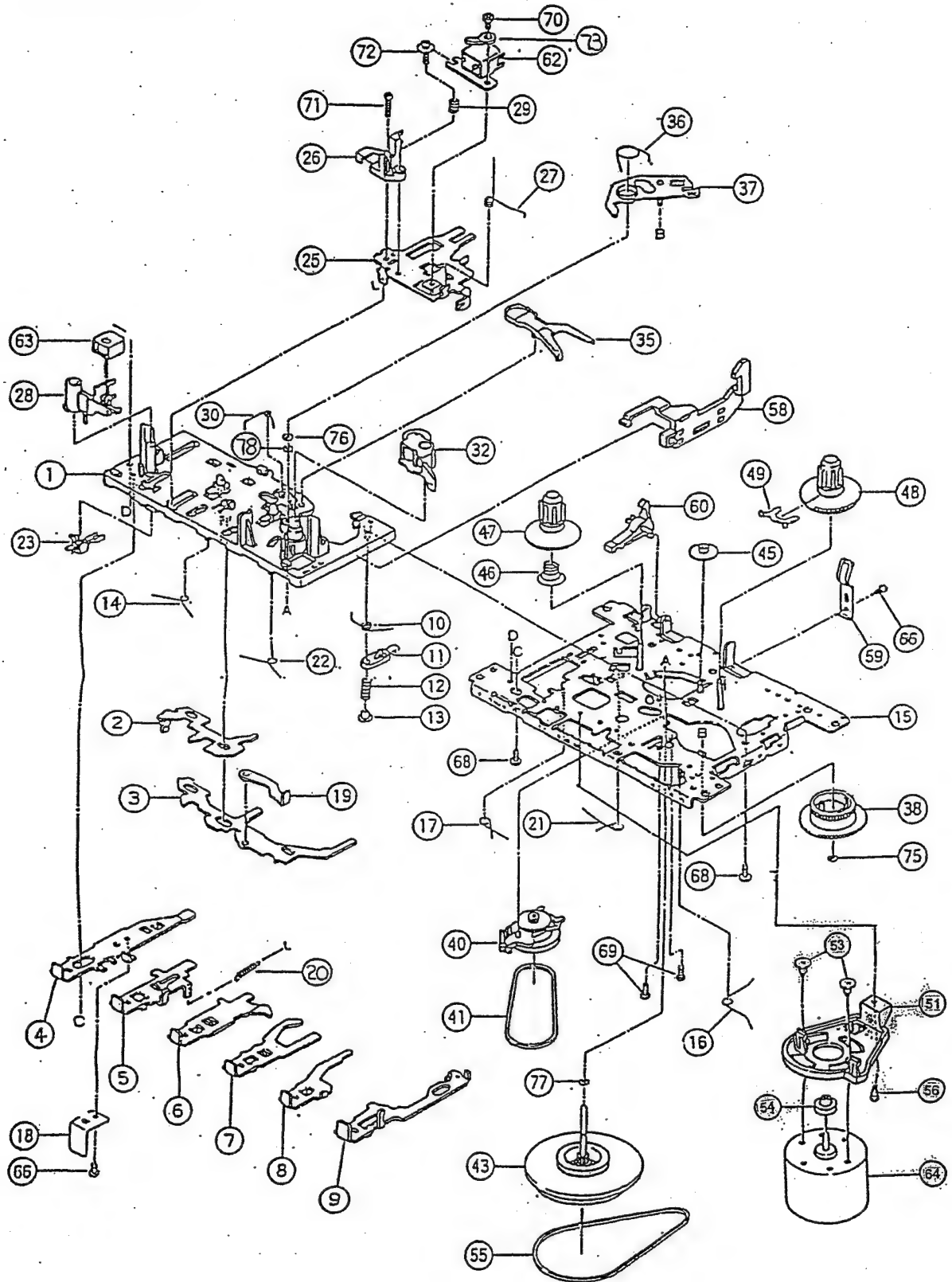


EXPLODED DRAWING - REMOTE



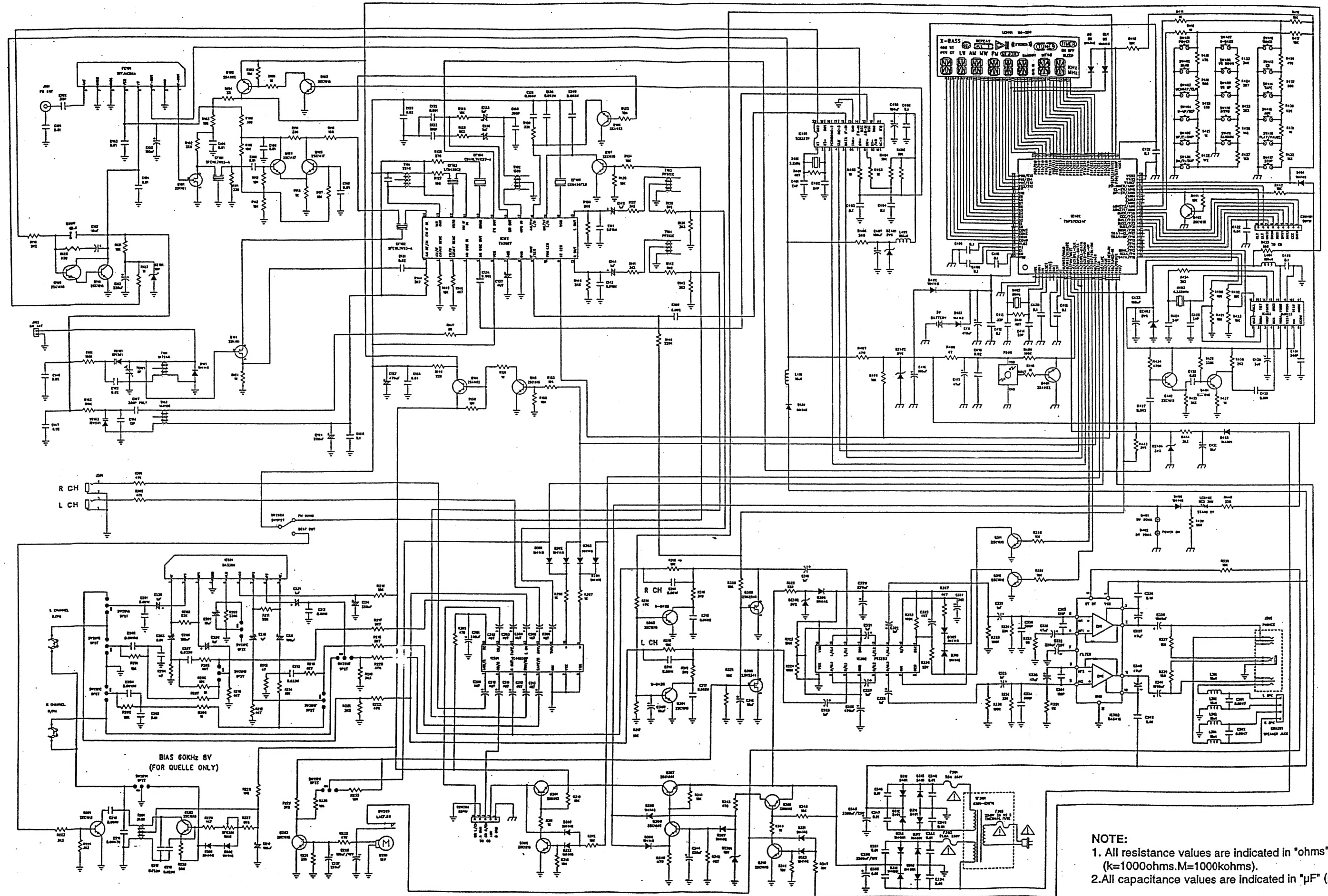
EXPLODED DRAWING - CASSETTE DECK

TK20FX-S805-900

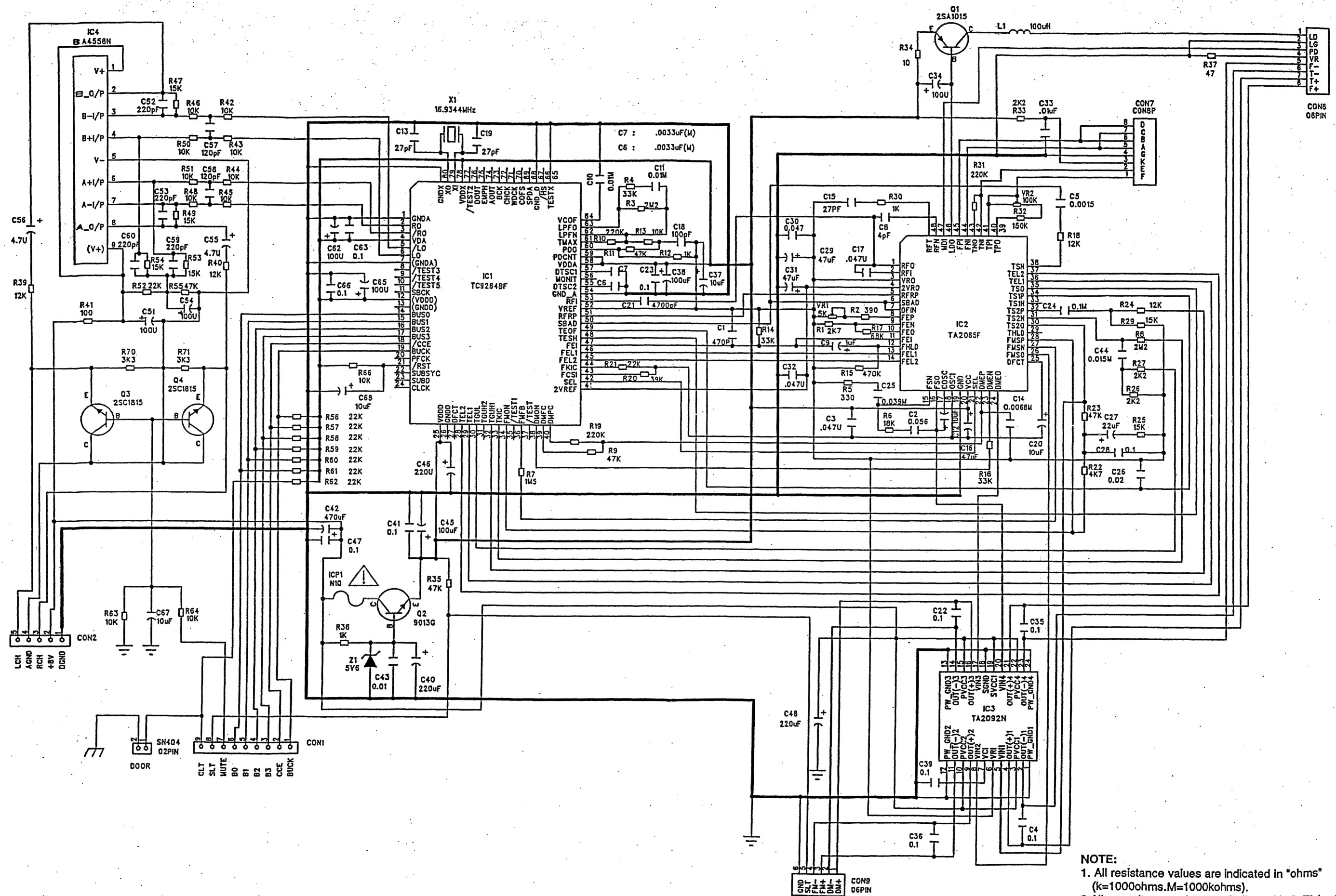


SCHEMATIC DIAGRAMS

TUNER/CASSETTE/CONTROL & POWER AMP. SECTION

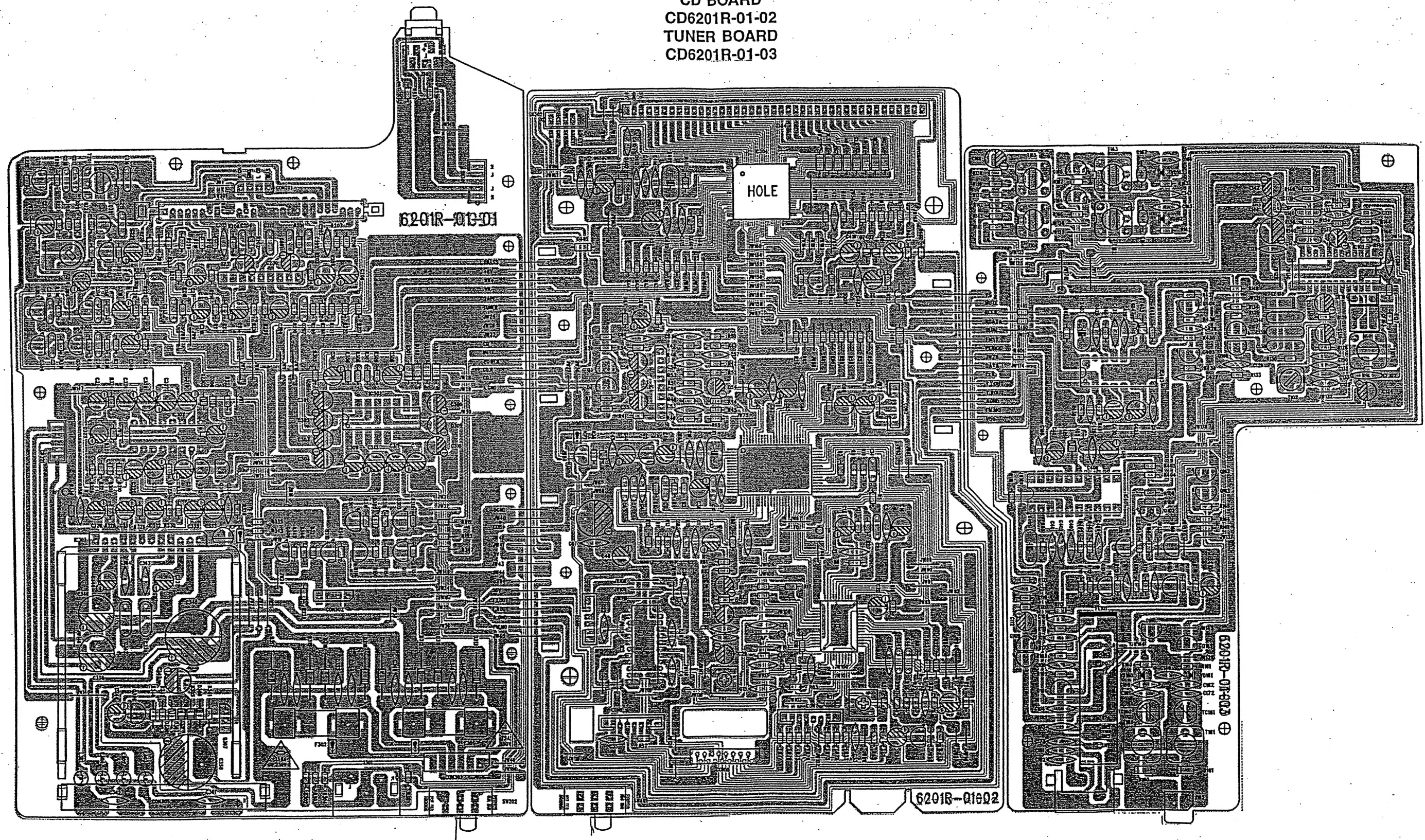


CD SECTION



- NOTE:
1. All resistance values are indicated in "ohms" (k=1000ohms.M=1000kohms).
 2. All capacitance values are indicated in "μF" (p=10⁻⁶ μF).

MAIN BOARD
CD6201R-01-01
CD BOARD
CD6201R-01-02
TUNER BOARD
CD6201R-01-03



[illegible]